

Title (en)
Production of dielectric ceramic material powder

Title (de)
Herstellung von keramischen dielektrischen Pulvern

Title (fr)
Production de poudres céramiques diélectriques

Publication
EP 0705804 A1 19960410 (EN)

Application
EP 95115546 A 19951002

Priority
JP 23905894 A 19941003

Abstract (en)
Powder of dielectric ceramic materials is produced by preparing a main component $\text{Ba}(\text{Ti}_{1-x-y}\text{Zr}_x\text{Hf}_y)\text{O}_3$ allowing barium hydroxide, at least one titanium compound, at least one zirconium compound and at least one hafnium compound to react with one another by condensation by catalytic actions of a base selected from the group consisting of alkali and amines; preparing a complex hydroxide of at least one rare earth element and manganese by allowing at least one rare earth element compound and a manganese compound to react with a base selected from the group consisting of alkali and amines in an aqueous solution; preparing at least one carbonate of calcium and magnesium by allowing at least one compound of calcium compounds and magnesium compounds to react with carbonate ions in an aqueous solution; mixing all the precipitates, and drying and thermally treating the resultant mixture.

IPC 1-7
C04B 35/49; **C01B 13/36**; **C01G 25/00**; **C01G 27/00**

IPC 8 full level
C01G 25/00 (2006.01); **C01G 27/00** (2006.01); **C04B 35/49** (2006.01); **C04B 35/626** (2006.01)

CPC (source: EP KR US)
C01G 25/006 (2013.01 - EP KR US); **C01G 27/006** (2013.01 - EP KR US); **C04B 35/49** (2013.01 - EP KR US);
C04B 35/626 (2013.01 - EP KR US); **C01P 2002/34** (2013.01 - EP KR US)

Citation (search report)
• [A] US 5014158 A 19910507 - NISHIMURA TSUTOMU [JP], et al
• [A] DE 3612705 A1 19861023 - MURATA MANUFACTURING CO [JP]
• [A] EP 0360649 A1 19900328 - EUROP COMPOSANTS ELECTRON [FR]
• [A] EP 0324619 A1 19890719 - DU PONT [US]

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EP0992469A3; CN114988869A; EP1777713A3

Designated contracting state (EPC)
DE FR GB

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EP 0705804 A1 19960410; **EP 0705804 B1 19980701**; DE 69503208 D1 19980806; DE 69503208 T2 19990107; KR 0147345 B1 19980817;
KR 960014069 A 19960522; US 5554571 A 19960910

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